

# Adding Win-10 to my Demo Laptop . . .

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May-2015

# The PC – Medion 12” Transformer

- Tablet – with attached Keyboard (Aldi \$599, March 2014)
- 4 GB RAM, 60 GB SSD, plus 500 GB HDD within keyboard
- Two batteries – 1<sup>st</sup> in Tablet, 2<sup>nd</sup> in Keyboard (10+ hours usage)
- Came with Win 8.1 64 bit, added 32GB uSD in Tablet section
- Wanting to add Win-10 as Dual Boot . . . . . preserving Win-8

# Steps

1. Analyze HDD
  2. Use Win-8 to create an extra blank partition
  3. Acronis True Image Backup of Win-8, using Bootable USB
- \* Proved BIOS sequence OK !

Computer Management

File Action View Help

Volume	Layout	Type	File System	Status	Capacity	Free Space
Dock-Hold (K:)	Simple	Basic	NTFS	Healthy (Primary Partition)	268.52 ...	181.44 GB
Dock-Images (L:)	Simple	Basic	NTFS	Healthy (Primary Partition)	97.49 GB	38.34 GB
RAMDISK (Z:)	Simple	Basic	FAT32	Healthy (Active, Primary Partition)	499 MB	499 MB
Recover (E:)	Simple	Basic	NTFS	Healthy (Primary Partition)	25.16 GB	8.96 GB
SDHC-32G (G:)	Simple	Basic	FAT32	Healthy (Primary Partition)	29.82 GB	12.61 GB
Win 81-Boot (C:)	Simple	Basic	NTFS	Healthy (Boot, Page File, Crash Dump, Prim...	56.53 GB	3.87 GB
Win10-10125 (D:)	Simple	Basic	NTFS	Healthy (Primary Partition)	74.02 GB	23.88 GB

Computer Management (Local)

- System Tools
  - Task Scheduler
  - Event Viewer
  - Shared Folders
  - Performance
  - Device Manager
- Storage
  - Disk Management
- Services and Applications

**Disk 1**  
Basic  
58.13 GB  
Online

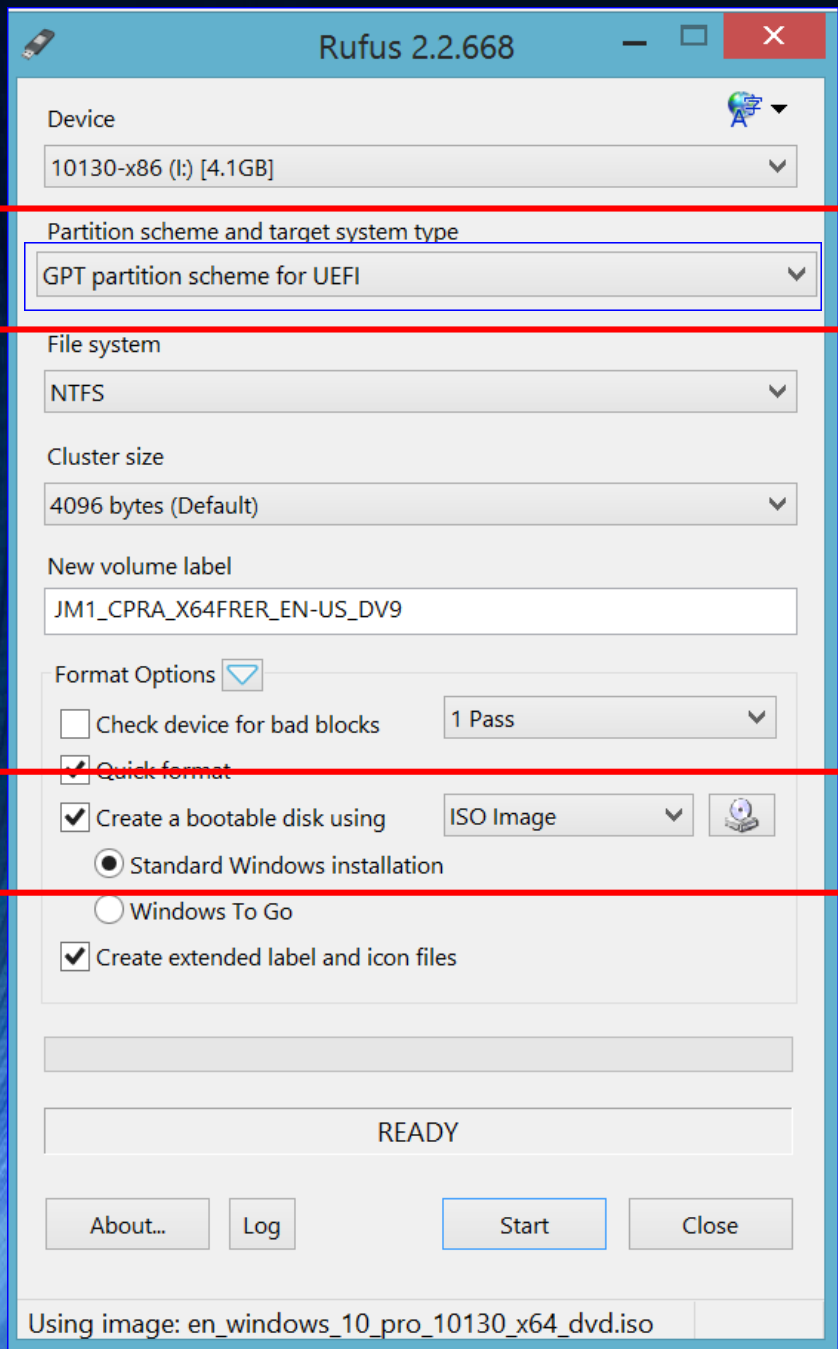
499 MB Healthy (Recover)	100 MB Healthy (EF)	1.00 GB Healthy (Primary)	<b>Win 81-Boot (C:)</b> 56.53 GB NTFS Healthy (Boot, Page File, Crash)
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**Disk 2**  
Basic  
465.64 GB  
Online

<b>Dock-Hold (K:)</b> 268.52 GB NTFS Healthy (Primary Parti	<b>Recover (E:)</b> 25.16 GB NTFS Healthy (Primary	450 MB Healthy (	<b>Dock-Images (L:)</b> 97.49 GB NTFS Healthy (Primary Par
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**Disk 3**  
Removable  
29.83 GB  
Online

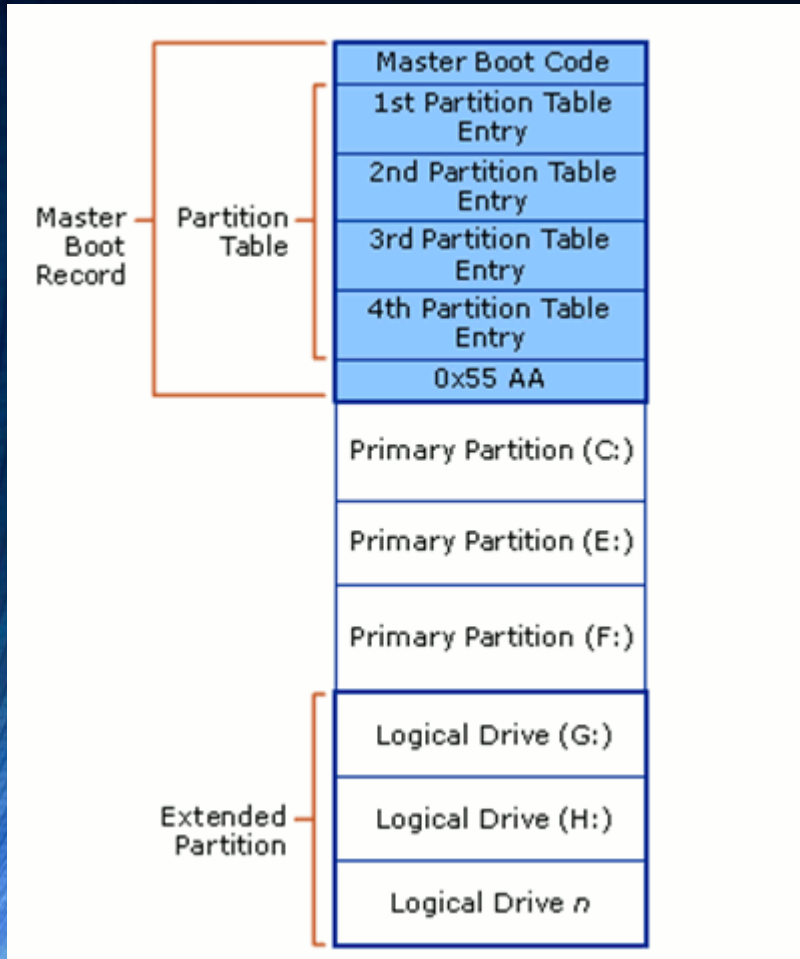
<b>SDHC-32G (G:)</b> 29.82 GB FAT32 Healthy (Primary Partition)
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4. Copy Win-10 ISO to USB, using RUFUS as used for eeePC installations
5. Insert into Laptop and Standalone Boot as used for Acronis Backup
6. **Alas – would not recognise it -> Win-8**
7. **Investigate . . . . GPT / UEFI Option needed**
8. Redo Copy Win-10 ISO to USB
9. Now booting ex Win-10 USB, but error msg  
**– cannot install to MBR partition**
10. Found that **SSD is GPT** (new style), while **HDD is MBR** (old style)

# So what is MBR vs GPT ?

## Globally Unique ID Partition Table



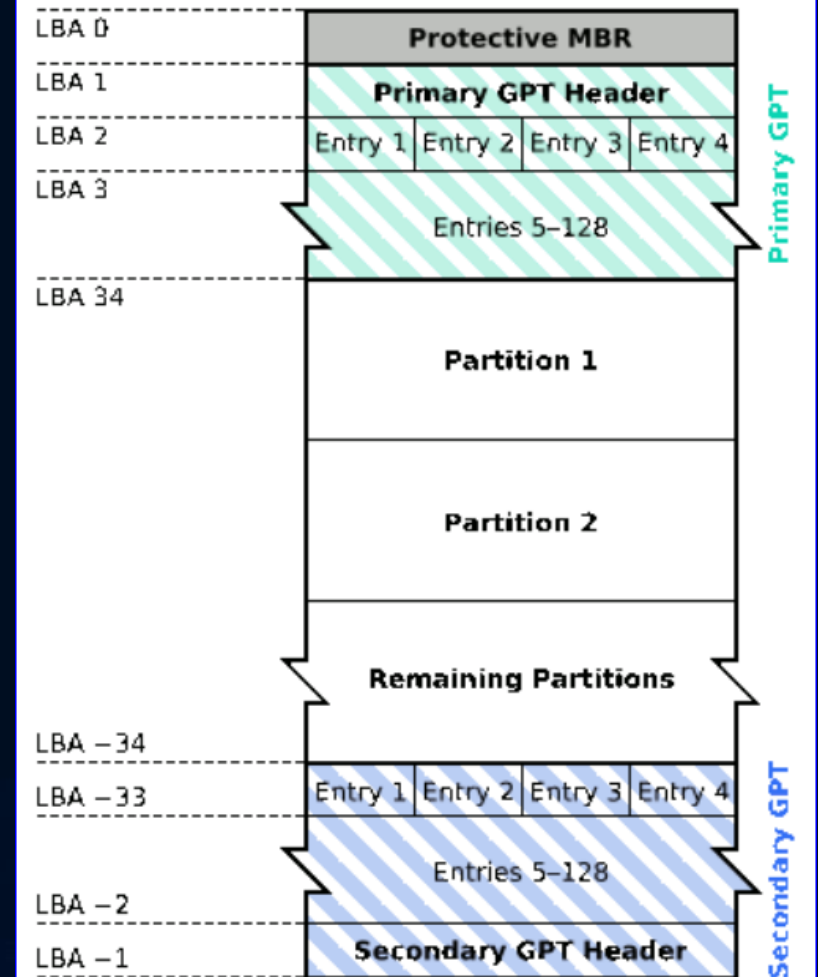
### GPT Advantages

- Part of \*UEFI Standard
- Allows Secure Boot
- Up to 128 Partitions
- No 2TB limits
- Backup Table at end

\* UEFI = new BIOS replacement

Unified Extensible Firmware Interface

### GUID Partition Table Scheme



Max Disk = 2TB , Max 4 Physical Partitions

# So how do I convert the HDD ?

AOMEI Partition Assistant Standard Edition - Safely Partition Your Hard Drives

System Disk Partition Wizard Settings Help

Apply Discard Undo Redo Reload Safely Partition Tutorials Upgrade Feedback Free Backup

**Wizards**

- Extend Partition Wizard
- Disk Copy Wizard
- Partition Copy Wizard
- Migrate OS to SSD
- Partition Recovery Wizard
- NTFS to FAT32 Converter
- Make Bootable Media
- Windows To Go Creator

**Disk Operations**

- Disk Copy
- Delete all Partitions
- Wipe Hard Drive
- Disk Surface Test
- Convert to GPT**
- Rebuild MBR
- Properties

Partition	File System	Capacity	Used Space	Free Space	Flag	Status
<b>Disk 2 (GPT)</b>						
*:	NTFS	499.00MB	242.88MB	256.12MB	GPT,WRE	None
*:	FAT32	100.00MB	28.53MB	71.47MB	GPT,EFI	System
*:	Other	128.00MB	0.00KB	128.00MB	GPT,MSR	None
*: PRC_RP	FAT32	1.00GB	207.39MB	816.61MB	GPT	None
C: Win 81-Boot	NTFS	56.53GB	52.65GB	3.88GB	GPT	Boot

**Disk 1**  
Basic MBR  
500.00MB  
Z: RAMDISK  
499.98MB FAT32

**Disk 2**  
Basic GPT  
58.25GB  
C: Win 81-Boot  
56.53GB NTFS

**Disk 3**  
Basic GPT  
465.76GB  
K: Dock-Hold  
268.52GB NTFS  
E: R...  
25....  
D: Win10-10...  
74.02GB NTFS  
L: Dock-Images  
97.49GB NTFS

**Disk 4**  
Basic MBR  
29.83GB  
G: SDHC-32G  
29.82GB FAT32

AOEMI ...

- Modern Day 'Partition Magic'
- Convert Disk to GPT without losing data
- Many other good functions
- **Error msg - not enough space !!**
- Sent query to AOEMI Prompt email answer – need empty space at end of drive (2<sup>nd</sup> Table)
- ... Free ...

# Summary

- Frustrating set of problems
- Learnt a lot about UEFI, GPT
- AOEMI seems to be real gem, with many possibilities . .
- Got warning when installing Win-10 : OS should be in 1<sup>st</sup> partition will have performance problems ( but will shift later )
- Overall, achieved Win-10 Install, as a Dual Boot system . . .